Simplify Hybrid Cloud Management using AWS Systems Manager
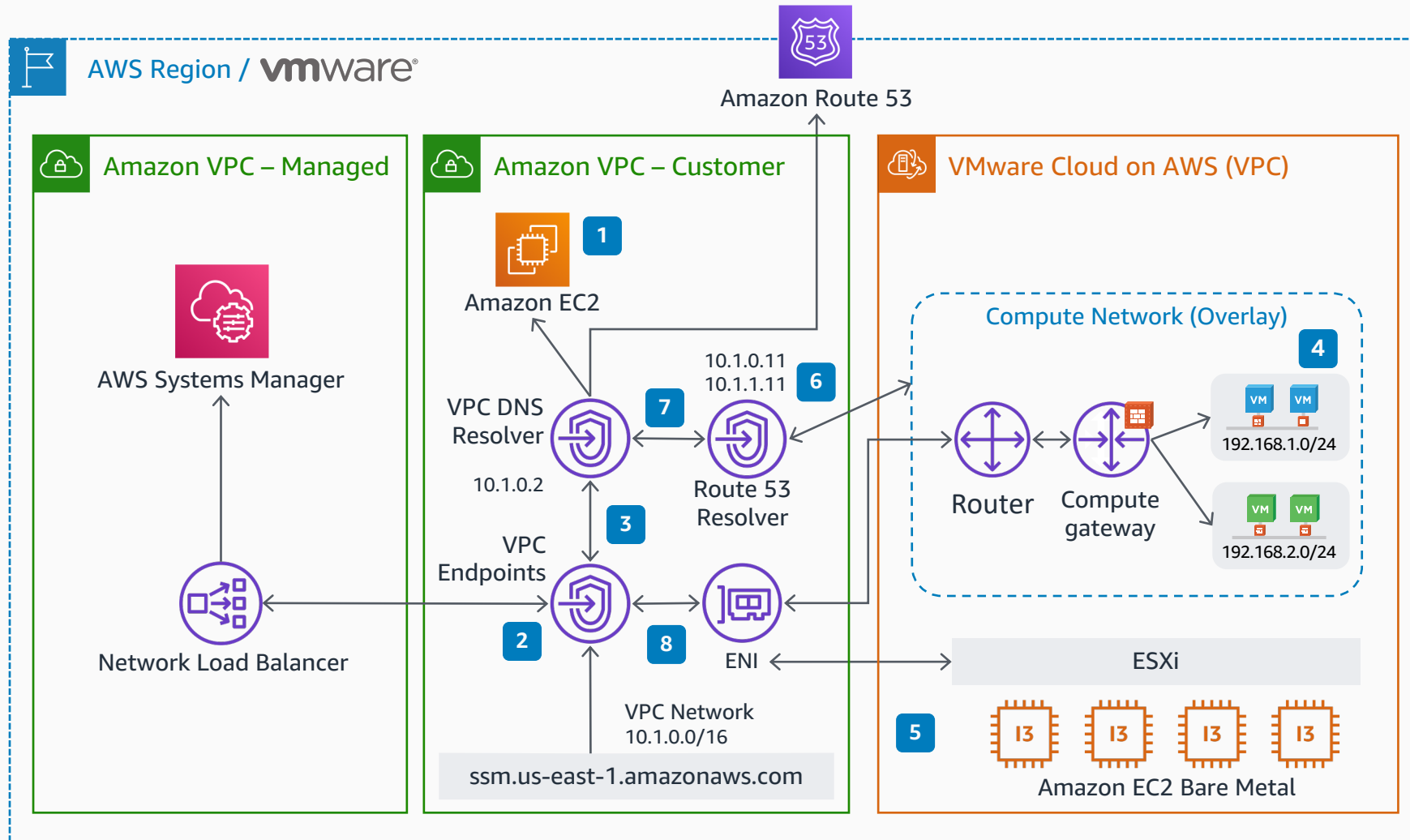
Use AWS Systems Manager to manage both Amazon EC2 instances and VMware Cloud on AWS

AWS Region / **vm**ware®

Amazon VPC – Managed

AWS Systems Manager

Network Load Balancer

Amazon VPC – Customer

1 Amazon EC2

VPC DNS Resolver

10.1.0.2

7

10.1.0.11
10.1.1.11

6

Route 53 Resolver

VPC Endpoints

3

2

8

ENI

VPC Network
10.1.0.0/16

ssm.us-east-1.amazonaws.com

Amazon Route 53

VMware Cloud on AWS (VPC)

Compute Network (Overlay)

4

Router

Compute gateway

VM VM
192.168.1.0/24

VM VM
192.168.2.0/24

ESXi

5

I3 I3 I3 I3

Amazon EC2 Bare Metal

AWS Systems Manager Access from Amazon EC2

1 Install the AWS Systems Manager agent on the Amazon Elastic Compute Cloud (Amazon EC2) customer instance

2 Create AWS Systems Manager VPC endpoints.

3 The Amazon EC2 instance connects to Systems Manager through a VPC endpoint. The endpoint domain name hosted in Amazon Route 53 is resolved using a VPC DNS resolver.

AWS Systems Manager Access from VMware Cloud on AWS

4 Install the AWS Systems Manager agent on the VMs (virtual machines) on VMware Cloud on AWS.

5 The Elastic Network Interface (ENI) connects directly to the physical ESXi hosts in VMware Cloud on AWS. This connection is automated when the VMware Cloud SDDC (Software Defined Data Centre) is provisioned the first time.

6 Create an Amazon Route 53 inbound endpoint and configure DNS resolvers on VMware Cloud on AWS to forward the applicable DNS queries to the IP addresses for your resolver inbound endpoint.

7 The resolver inbound endpoints forward DNS queries to the VPC DNS resolver to resolve the Systems Manager VPC endpoint domain name hosted in Route 53.

8 VMs in VMware Cloud on AWS connect to Systems Manager through a VPC endpoint. Traffic passes through the VPC ENI connected with VMware Cloud on AWS.

aws

AWS Reference Architecture